

## ABSTRACT OF THE DISCLOSURE

A waste heat collecting system for an internal combustion engine has an object to collect waste heat from the engine and make most use of the collected waste heat to achieve the maximum effect of improving fuel consumption ratio. The waste heat utilizing system has a waste heat collecting cycle for collecting waste heat from an internal combustion engine and having an expansion device for generating rotational driving force from the collected waste heat, a refrigerating cycle having a compressor device for compressing a refrigerant and a power transmitting means rotationally driven by a driving force generating means and operatively connected to the compressor device to rotationally drive the same. In this system, the expansion device is operatively connected to the compressor device to rotationally drive the same.